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DB=USPT; PLUR=YES; OP=ADJ

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<u>L9</u> L8 and (internet or website or online)	1	<u>L9</u>
<u>L8</u> L1 and (implant\$6 or wear\$6) same (device or unit or component)	1	<u>L8</u>
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DB=PGPB; PLUR=YES; OP=ADJ

<u>L6</u> L1 and (implant\$6 or wear\$6) same (device or unit or component)	0	<u>L6</u>
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DB=USPT; PLUR=YES; OP=ADJ

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L9: Entry 1 of 1

File: USPT

Jul 9, 2002

DOCUMENT-IDENTIFIER: US 6416471 B1

TITLE: Portable remote patient telemonitoring system

Brief Summary Text (14):

Bornn et al. describe a portable physiological data monitoring/alert system in U.S. Pat. Nos. 4,784,162; 4,827,943; 5,214,939; 5,348,008; 5,353,793; and 5,564,429 in which one or more patients wear sensor harnesses including a microprocessor which detects potentially life-threatening events and automatically calls a central base station via radiotelemetry using a radio modem link. In a home or alternate site configuration, communications between the base station and remote unit is by way of commercial telephone lines. Generally, the system automatically calls "911" or a similar emergency response service when an abnormality is detected by the ECG monitor.

Detailed Description Text (217):

This page offers the option to have a look at the current status of the patient. The download properties are entered, with about 3 common defaults accessible from a simple interface, and the current settings (if any) displayed. Some types of download schedules actually result in multiple download instructions being generated, e.g. for downloading 5 minutes per hour over the course of a 24 hour period, with the actual download saved up for a later time. Preferably, download properties are validated, and any conflicts resolved (e.g. if an impossible amount of download time is required). The download properties are then sent to the download scheduler 114. Since some downloads may take an extended period of time, it is desirable that an estimate of the online expected time should be presented when setting download schedules.

Detailed Description Text (227):

The user selects a patient case and establishes a connection with the appropriate base station unit 30. Failure to connect should be reported immediately. Conditions likely to cause failure are: 1) base station unit 30 turned off or not connected, 2) patient is not wearing a disposable sensor band 10 (data not available), 3) phone line is busy, 4) all user phone lines are busy downloading other patient sessions, and 5) the signal transfer unit 20 is out of range of the base station unit 30 (or in catch-up mode). The monitored data is displayed in a real time, smooth scrolling display. When disconnected from the base station unit 30, the user may go to the review downloaded data section to analyze the session just downloaded.

Detailed Description Text (276):

For example, data processing such as ECG analysis could be performed at the base station unit 30 and only the summary data transmitted to the remote monitoring station 50, thereby reducing download times considerably. Also, a radio receiver may be provided to the patient for attachment to his or her computer for use in downloading software and uploading data from/to an Internet server for connection to a predetermined remote monitoring station connected to a designated node on the Internet. This approach would eliminate the need for (and cost of) a separate base station. If auxiliary sensor functions were still required, connections could be

built into the radio receiver unit. In addition, a low bandwidth version of the invention may also be developed by tailoring the signal from the sensor band 10 so as to leave out unnecessary data. Also, two-way communication with the sensor band 10 may also be provided. In accordance with another aspect of the invention, the received event data from several patients may be prioritized for patient management (triaging) using the techniques of the invention.

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